

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Insulation material element of mineral fibers, bound with a binding agent, soluble in a physiological milieu, in form of an insulation material plate or to [[a]]
an insulation material sheet rolled up as a roll and separable into insulation material plates as a
portion of a system, prepared for clamped assembly of insulation plates between beams, such as
5 roof rafters, the composition of the mineral fibers of the insulation material element featuring an
alkali/earth alkali relation of <1 , characterized in that ~~the composition of the mineral fibers of the~~
~~insulation material element features a alkali/earth alkali relation of <1 and that their fiber~~
structure is determined by an average geometric fiber diameter of $\leq 4 \mu\text{m}$, by a gross density in
the range of 8 to 25 kg/m³ and a portion of the binding agent referred to [[the]] a fiber mass of
10 the insulation material element in the range of 4% to 5.5 weight %.

2. (Original) Insulation material element according to claim 1, characterized in that said binding agent is an organic binding agent.

3. (Previously Presented) Insulation material element according to claim 1, characterized in that the binding agent, referred to the fiber mass of the insulation material sheet, is in the range of 4.5 to 5 weight %.

4. (Currently Amended) Insulation material element according to claim 1; characterized in that its gross density is in the range of 8 to 14 kg/m³, preferably 11 to 14 kg/m³, especially

~~approximately 13 kg/m³~~, and the insulation material element features a thermal conducting capacity corresponding to thermal conductivity group 040, according to DIN 18165 or similar.

5. (Currently Amended) Insulation material element according to claim 1, characterized in that their gross density is in the range of 18 to 25 kg/m³, ~~preferably 19 to 24 kg/m³, especially 23 kg/m³~~, and the insulation material element features a thermal conducting capacity corresponding to the thermal conductivity group 035, according to DIN 18165.

6. (Previously Presented) Insulation material element assembled between beams, such as roof rafters, without additional internal lining, according to claim 1, characterized in that it features a fire resistance category of at least EI 30, according to EN 113501.

7. (Previously Presented) Insulation material element according to claim 1, characterized in that the roll up process of the mineral fiber felt, rolled up in form of a roll, is accomplished free of a prior treatment, eventually free of a fulling process.

8. (Currently Amended) Insulation material element according to claim 7, characterized in that the wound up roll of the ~~mineral fiber felt~~ insulation material element of miner fibers is compressed pursuant to a compression ratio of 1:3 ~~until to~~ [[1:8]] 8:1, ~~preferably 1:4 until 1:6~~.

9. (Previously Presented) Insulation material element according to claim 1, characterized in that upon said section, markings are provided as cutting aids, featured at least on one roll surface.

10. (Previously Presented) Insulation material element according to claim 1, characterized in that the mineral fibers of the insulation material element, as far as their solubility in a physiological milieu is concerned, correspond to the requirement of European Guideline 97/69/EG and/or the requirements of the German Dangerous Products Norm, Section IV, Nr.22.

11. (Previously Presented) Insulation material element according to claim 1, characterized in that said mineral fibers of the insulation element are produced by internal centrifugation in the centrifuging basket process, with a temperature at the centrifuging basket of at least 1,100 ° C.

12. (Previously Presented) Insulation material element according to claim 1, characterized in that it features a fusion point according to DIN 4102, Part I7, of $\geq 1,000$ ° C.

13. (Previously Presented) Insulation material element according to claim 1, characterized by the following ranges of chemical composition of mineral fibers in weight %:

SiO ₂	39 - 55
Al ₂ O ₃	16 - 27 %
CaO	6 - 20 %
MgO	1 - 5 %
Na ₂ O	0 - 15 %
K ₂ O	0 - 15 %
R ₂ O (Na ₂ O + K ₂ O)	10 - 14.7 %
P ₂ O ₅	0 - 3 %
Fe ₂ O ₃ (Iron total)	1.5 - 15 %
B ₂ O ₃	0 - 2 %
TiO ₂	0 - 2 %
Other	0 - 2.0 %

14. (Previously Presented) Insulation material element according to claim 1, characterized in that the fiber structure of the insulation material element is respectively free of beads, meaning the bead portion is $< 1\%$.

15. (Previously Presented) System for clamping insulation material elements between rafters of a building, in particular rafters of a roof, characterized by insulation material elements with the features of claim 1, being aligned and clamped with a clamping felt between adjacent beams.

16. (New) Insulation material element according to claim, characterized in that its gross density is in the range of 11 to 14 kg/m³, and the insulation material element features a thermal conducting capacity corresponding to thermal conductivity group 040, according to DIN 18165 or similar.

17. (New) Insulation material element according to claim 1, characterized in that its gross density is in the range of approximately 13 kg/m³, and the insulation material element features a thermal conducting capacity corresponding to thermal conductivity group 040, according to DIN 18165 or similar.

18. (New) Insulation material element according to claim 1, characterized in that their gross density is in the range of 19 to 24 kg/m³ and the insulation material element features a thermal conducting capacity corresponding to the thermal conductivity group 035, according to DIN 18165.

19. (New) Insulation material element according to claim 1, characterized in that their gross density is in the range of 23 kg/m³ and the insulation material element features a thermal conducting capacity corresponding to the thermal conductivity group 035, according to DIN 18165.

20. (New) Insulation material element according to claim 11, characterized in that the wound up roll of the insulation material element of mineral fibers is compressed pursuant to a compression ration of 4:1 to 6:1.